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TRAFFIC ENGINEERING AND SAFETY SYSTEMS

SECTIONS

ITS

Signal Design

Signals Management

ITSS Org Chart

Directory

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Technical Conference Flashing Yellow Arrow Signal Display HOME » ITS & Signals - ITSS

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Mission Statement:

To provide safe, efficient movement of traffic at signalized intersections and on congested corridors through the research, design, and implementation of traffic signal and transportation system plans; development of associated project specifications; development of equipment specifications; and development of signal timing for three major types of traffic control equipment applications: isolated traffic signal installations, traffic signal systems, and intelligent transportation systems.

Resources:

ITSS Design Manual

ITSS Project Special Provisions (PSP)

Instructions for using PSP

PSP - Current Version (V6.7)

Metal Pole Designs

NCDOT Standard Specifications for Roads and Structures

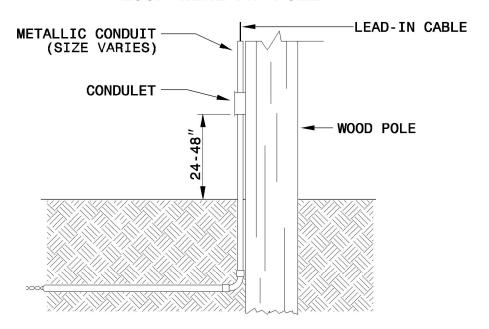
NCDOT Roadway Standard Drawing Library

Revision to Standard Drawing 1725.01 (Inductive Detection Loops) (November 2008)



Loop Installation Drawings

LOOP WIRE AT POLE



NOTE

SPLICE ALL LOOP WIRE TAIL SECTIONS/LEAD-IN CABLE IN JUNCTION BOXES OR APPROVED CONDULETS.



Condulets

From 2006 Std. Specifications:

Install condulet on all risers for lead-in cable.

This indicates that all risers with lead-in cable (from loops and pedestrian pushbuttons and even the railroad preempt interconnection) require a condulet. What do we really need?



Junction Boxes

From 2006 Std. Specifications:

Install junction boxes where underground splicing of cable is necessary and where transitioning from below ground to above ground installation or vice-versa.

Do we need to set a maximum distance of run between a pedestal, pushbutton post, signal cabinet or other cable access point at which point a junction box becomes a requirement to insure replacement wiring can be pulled through the riser?



Question

Should condulets be required on all risers with loop wire or leadin from loops regardless of whether a junction box is installed in the run at the base of the pole?

